

## SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

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HILLMAN, Jennifer L.  
YUE, Henry  
LAL, Preeti  
BANDMAN, Olga  
CORLEY, Neil C.  
GUEGLER, Karl J.  
BAUGHN, Mariah R.  
LU, Dyung Aina M.  
AZIMZAI, Yalda  
YANG, Junming

<120> HUMAN HYDROLASE PROTEINS

<130> PF-0634 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/190,937; unassigned; 60/135,519

<151> 1998-11-12; 1998-11-12; 1999-05-21

<160> 35

<170> PERL Program

<210> 1

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2293764CD1

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Val	Val	Thr	Val	Asp	Ala	Lys	Ile	Tyr	Glu	Leu	Cys	Glu	Leu	Ala
				20					25					30
Ala	Arg	Leu	Glu	Arg	Ala	Gly	Leu	Asn	Gly	Tyr	Lys	Gly	Tyr	Gly
				35					40					45
Val	Gly	Asp	Trp	Leu	Cys	Met	Ala	His	Tyr	Glu	Ser	Gly	Phe	Asp
				50					55					60
Thr	Ala	Phe	Val	Asp	His	Asn	Pro	Asp	Gly	Ser	Ser	Glu	Tyr	Gly
				65					70					75
Ile	Phe	Gln	Leu	Asn	Ser	Ala	Trp	Trp	Cys	Asp	Asn	Gly	Ile	Thr
				80					85					90
Pro	Thr	Lys	Asn	Leu	Cys	His	Met	Asp	Cys	His	Asp	Leu	Leu	Asn
				95					100					105
Arg	His	Ile	Leu	Asp	Asp	Ile	Arg	Cys	Ala	Lys	Gln	Ile	Val	Ser

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	110		115		120
Ser Gln Asn Gly	Leu Ser Ala Trp Thr	Ser Trp Arg Leu His Cys			
	125		130		135
Ser Gly His Asp	Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His				
	140		145		150
Val Lys Ile Asp	Pro Lys Ile His Pro				
	155				

&lt;210&gt; 2

&lt;211&gt; 285

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 949738CD1

&lt;400&gt; 2

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1	5	10 15
Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly		
	20 25	30
Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His		
	35 40	45
Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu		
	50 55	60
Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu		
	65 70	75
Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg		
	80 85	90
Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys		
	95 100	105
Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu		
	110 115	120
Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu		
	125 130	135
Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu		
	140 145	150
Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro		
	155 160	165
Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly		
	170 175	180
Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala		
	185 190	195
Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu		
	200 205	210
Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro		
	215 220	225
Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly		
	230 235	240
Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val		
	245 250	255
Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala		
	260 265	270

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Gly Leu Ser Ser Leu Cys Leu Val Leu Ser Thr Arg Pro His Ser  
 275 280 285

&lt;210&gt; 3

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1297034CD1

&lt;400&gt; 3

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 Phe Leu Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn  
 20 25 30  
 Ala Cys Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe  
 35 40 45  
 Ser Phe Glu Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys  
 50 55 60  
 Pro Arg Asp Arg Ile Ser Ala Ile Ala His Arg Gly Gly Ser His  
 65 70 75  
 Asp Ala Pro Glu Asn Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys  
 80 85 90  
 Asn Gly Ala Thr Gly Val Glu Leu Asp Ile Glu Phe Thr Ser Asp  
 95 100 105  
 Gly Ile Pro Val Leu Met His Asp Asn Thr Val Asp Arg Thr Thr  
 110 115 120  
 Asp Gly Thr Gly Arg Leu Cys Asp Leu Thr Phe Glu Gln Ile Arg  
 125 130 135  
 Lys Leu Asn Pro Ala Ala Asn His Arg Leu Arg Asn Asp Phe Pro  
 140 145 150  
 Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala Val Ala Glu Cys Leu  
 155 160 165  
 Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys Gly His Ala His  
 170 175 180  
 Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu Phe Pro Gln  
 185 190 195  
 Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu Val Ile  
 200 205 210  
 Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu Thr  
 215 220 225  
 His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg  
 230 235 240  
 Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile  
 245 250 255  
 Leu Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly  
 260 265 270  
 Ile Ser Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr  
 275 280 285  
 Leu Lys Lys Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr  
 290 295 300  
 Val Asn Thr Phe Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly

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	305		310		315
Ser Ser Tyr Ile Thr Asp Ser Met Val		Glu Asp Cys Glu Pro His			
	320		325		330
Phe					

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 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 1553276CD1

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 Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile  
 20 25 30  
 Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys  
 35 40 45  
 Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala  
 50 55 60  
 Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys  
 65 70 75  
 Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser  
 80 85 90  
 Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro  
 95 100 105  
 Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe  
 110 115 120  
 Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu  
 125 130 135  
 Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys  
 140 145 150  
 Ser Ser Ser

<210> 5  
 <211> 571  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 1702211CD1

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 Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val  
 1 5 10 15  
 Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu  
 20 25 30  
 Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly  
 35 40 45

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Arg	Gln	Val	Gly	Val	Lys	Gly	Thr	Asp	Arg	Leu	Val	Asn	Val	Phe	50	55	60
Leu	Gly	Ile	Pro	Phe	Ala	Gln	Pro	Pro	Leu	Gly	Pro	Asp	Arg	Phe	65	70	75
Ser	Ala	Pro	His	Pro	Ala	Gln	Pro	Trp	Glu	Gly	Val	Arg	Asp	Ala	80	85	90
Ser	Thr	Ala	Pro	Pro	Met	Cys	Leu	Gln	Asp	Val	Glu	Ser	Met	Asn	95	100	105
Ser	Ser	Arg	Phe	Val	Leu	Asn	Gly	Lys	Gln	Gln	Ile	Phe	Ser	Val	110	115	120
Ser	Glu	Asp	Cys	Leu	Val	Leu	Asn	Val	Tyr	Ser	Pro	Ala	Glu	Val	125	130	135
Pro	Ala	Gly	Ser	Gly	Arg	Pro	Val	Met	Val	Trp	Val	His	Gly	Gly	140	145	150
Ala	Leu	Ile	Thr	Gly	Ala	Ala	Thr	Ser	Tyr	Asp	Gly	Ser	Ala	Leu	155	160	165
Ala	Ala	Tyr	Gly	Asp	Val	Val	Val	Val	Thr	Val	Gln	Tyr	Arg	Leu	170	175	180
Gly	Val	Leu	Gly	Phe	Phe	Ser	Thr	Gly	Asp	Glu	His	Ala	Pro	Gly	185	190	195
Asn	Gln	Gly	Phe	Leu	Asp	Val	Val	Ala	Ala	Leu	Arg	Trp	Val	Gln	200	205	210
Glu	Asn	Ile	Ala	Pro	Phe	Gly	Gly	Asp	Leu	Asn	Cys	Val	Thr	Val	215	220	225
Phe	Gly	Gly	Ser	Ala	Gly	Gly	Ser	Ile	Ile	Ser	Gly	Leu	Val	Leu	230	235	240
Ser	Pro	Val	Ala	Ala	Gly	Leu	Phe	His	Arg	Ala	Ile	Thr	Gln	Ser	245	250	255
Gly	Val	Ile	Thr	Thr	Pro	Gly	Ile	Ile	Asp	Ser	His	Pro	Trp	Pro	260	265	270
Leu	Ala	Gln	Lys	Ile	Ala	Asn	Thr	Leu	Ala	Cys	Ser	Ser	Ser	Ser	275	280	285
Pro	Ala	Glu	Met	Val	Gln	Cys	Leu	Gln	Gln	Lys	Glu	Gly	Glu	Glu	290	295	300
Leu	Val	Leu	Ser	Lys	Lys	Leu	Lys	Asn	Thr	Ile	Tyr	Pro	Leu	Thr	305	310	315
Val	Asp	Gly	Thr	Val	Phe	Pro	Lys	Ser	Pro	Lys	Glu	Leu	Leu	Lys	320	325	330
Glu	Lys	Pro	Phe	His	Ser	Val	Pro	Phe	Leu	Met	Gly	Val	Asn	Asn	335	340	345
His	Glu	Phe	Ser	Trp	Leu	Ile	Pro	Arg	Gly	Trp	Gly	Leu	Leu	Asp	350	355	360
Thr	Met	Glu	Gln	Met	Ser	Arg	Glu	Asp	Met	Leu	Ala	Ile	Ser	Thr	365	370	375
Pro	Val	Leu	Thr	Ser	Leu	Asp	Val	Pro	Pro	Glu	Met	Met	Pro	Thr	380	385	390
Val	Ile	Asp	Glu	Tyr	Leu	Gly	Ser	Asn	Ser	Asp	Ala	Gln	Ala	Lys	395	400	405
Cys	Gln	Ala	Phe	Gln	Glu	Phe	Met	Gly	Asp	Val	Phe	Ile	Asn	Val	410	415	420
Pro	Thr	Val	Ser	Phe	Ser	Arg	Tyr	Leu	Arg	Asp	Ser	Gly	Ser	Pro	425	430	435
Val	Phe	Phe	Tyr	Glu	Phe	Gln	His	Arg	Pro	Ser	Ser	Phe	Ala	Lys	440	445	450
Ile	Lys	Pro	Ala	Trp	Val	Lys	Ala	Asp	His	Gly	Ala	Glu	Gly	Ala			

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	455		460		465
Phe Val Phe Gly Gly Pro Phe Leu Met	Asp Glu Ser Ser Arg Leu				
	470		475		480
Ala Phe Pro Glu Ala Thr Glu Glu Glu	Lys Gln Leu Ser Leu Thr				
	485		490		495
Met Met Ala Gln Trp Thr His Phe Ala	Arg Thr Gly Asp Pro Asn				
	500		505		510
Ser Lys Ala Leu Pro Pro Trp Pro Gln	Phe Asn Gln Ala Glu Gln				
	515		520		525
Tyr Leu Glu Ile Asn Pro Val Pro Arg	Ala Gly Gln Lys Phe Arg				
	530		535		540
Glu Ala Trp Met Gln Phe Trp Ser Glu	Thr Leu Pro Ser Lys Ile				
	545		550		555
Gln Gln Trp His Gln Lys Gln Lys Asn	Arg Lys Ala Gln Glu Asp				
	560		565		570
Leu					

&lt;210&gt; 6

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1859618CD1

&lt;400&gt; 6

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile		
1	5	10
Gln Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala		
	20	25
Ala Ser Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val		
	35	40
Phe Arg Ser Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala		
	50	55
Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val		
	65	70
Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn Leu Leu Gln Gly		
	80	85
Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu		
	95	100
Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu Arg Val		
	110	115
Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly Leu		
	125	130
Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn		
	140	145
Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys Ala		
	155	160
Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu Pro		
	170	175
Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu		
	185	190
Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu Arg Gly		

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200	205	210
Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln		
215	220	225
Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr		
230	235	240
Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala		
245	250	255
Phe Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn		
260	265	270
Ser Leu Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln		
275	280	285
Pro Asn Trp Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro		
290	295	300
Trp Ile Cys Asp Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln		
305	310	315
Ala Gln Lys Asp Lys Met Phe Ser Gln Asn Asp Thr Arg Cys Ala		
320	325	330
Gly Pro Glu Ala Val Lys Gly Gln Thr Leu Leu Ala Val Ala Lys		
335	340	345
Ser Gln		

&lt;210&gt; 7

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2011071CD1

&lt;400&gt; 7

Met Gln Asp Ala Pro Leu Ser Cys Leu Ser Pro Thr Arg Trp Ser		
1	5	10
Ser Val Ser Ser Ala Asp Ser Thr Glu Lys Ser Ala Ser Gly Ala		
20	25	30
Gly Thr Arg Asn Leu Pro Phe Gln Phe Cys Leu Arg Gln Ala Leu		
35	40	45
Arg Met Lys Ala Ala Gly Ile Leu Thr Leu Ile Gly Cys Leu Val		
50	55	60
Thr Gly Ala Glu Ser Lys Ile Tyr Thr Arg Cys Lys Leu Ala Lys		
65	70	75
Ile Phe Ser Arg Ala Gly Leu Asp Asn Tyr Trp Gly Phe Ser Leu		
80	85	90
Gly Asn Trp Ile Cys Met Ala Tyr Tyr Glu Ser Gly Tyr Asn Thr		
95	100	105
Thr Ala Pro Thr Val Leu Asp Asp Gly Ser Ile Asp Tyr Gly Ile		
110	115	120
Phe Gln Ile Asn Thr Phe Ala Trp Cys Arg Arg Gly Lys Leu Lys		
125	130	135
Glu Asn Asn His Cys His Val Ala Cys Ser Ala Leu Ile Thr Asp		
140	145	150
Asp Leu Thr Asp Ala Ile Ile Cys Ala Arg Lys Ile Val Lys Glu		
155	160	165
Thr Gln Gly Met Asn Tyr Trp Gln Gly Trp Lys Lys His Cys Glu		

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	170	175	180
Gly Arg Asp Leu Ser Glu Trp Lys Lys Gly Cys Glu Val Ser			
	185	190	

<210> 8  
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Met	Ala	Trp	Gln	Gly	Trp	Pro	Ala	Ala	Trp	Gln	Trp	Val	Ala	Gly	
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Cys	Trp	Leu	Leu	Leu	Val	Leu	Val	Leu	Val	Leu	Leu	Val	Ser	Pro	
				20					25					30	
Arg	Gly	Cys	Arg	Ala	Arg	Arg	Gly	Leu	Arg	Gly	Leu	Leu	Met	Ala	
				35					40					45	
His	Ser	Gln	Arg	Leu	Leu	Phe	Arg	Ile	Gly	Tyr	Ser	Leu	Tyr	Thr	
				50					55					60	
Arg	Thr	Trp	Leu	Gly	Tyr	Leu	Phe	Tyr	Arg	Gln	Gln	Leu	Arg	Arg	
				65					70					75	
Ala	Arg	Asn	Arg	Tyr	Pro	Lys	Gly	His	Ser	Lys	Thr	Gln	Thr	Arg	
				80					85					90	
Leu	Phe	Asn	Gly	Val	Lys	Val	Leu	Pro	Ile	Pro	Val	Leu	Ser	Asp	
				95					100					105	
Asn	Tyr	Ser	Tyr	Leu	Ile	Ile	Asp	Thr	Gln	Ala	Gln	Leu	Ala	Val	
				110					115					120	
Ala	Val	Asp	Pro	Ser	Asp	Pro	Arg	Ala	Val	Gln	Ala	Ser	Ile	Glu	
				125					130					135	
Lys	Glu	Gly	Val	Thr	Leu	Val	Ala	Ile	Leu	Cys	Thr	His	Lys	His	
				140					145					150	
Trp	Asp	His	Ser	Gly	Gly	Asn	Arg	Asp	Leu	Ser	Arg	Arg	His	Arg	
				155					160					165	
Asp	Cys	Arg	Val	Tyr	Gly	Ser	Pro	Gln	Asp	Gly	Ile	Pro	Tyr	Leu	
				170					175					180	
Thr	His	Pro	Leu	Cys	His	Gln	Asp	Val	Val	Ser	Val	Gly	Arg	Leu	
				185					190					195	
Gln	Ile	Arg	Ala	Leu	Ala	Thr	Pro	Gly	His	Thr	Gln	Gly	His	Leu	
				200					205					210	
Val	Tyr	Leu	Leu	Asp	Gly	Glu	Pro	Tyr	Lys	Gly	Pro	Ser	Cys	Leu	
				215					220					225	
Phe	Ser	Gly	Asp	Leu	Leu	Phe	Leu	Ser	Gly	Cys	Gly	Arg	Thr	Phe	
				230					235					240	
Glu	Gly	Asn	Ala	Glu	Thr	Met	Leu	Ser	Ser	Leu	Asp	Thr	Val	Leu	
				245					250					255	
Gly	Leu	Gly	Asp	Asp	Thr	Leu	Leu	Trp	Pro	Gly	His	Glu	Tyr	Ala	
				260					265					270	
Glu	Glu	Asn	Leu	Gly	Phe	Ala	Gly	Val	Val	Glu	Pro	Glu	Asn	Leu	
				275					280					285	
Ala	Arg	Glu	Arg	Lys	Met	Gln	Trp	Val	Gln	Arg	Gln	Arg	Leu	Glu	
				290					295					300	



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Arg Lys Gly Thr Cys Pro Ser Thr Leu Gly Glu Glu Arg Ser Tyr  
 305 310 315  
 Asn Pro Phe Leu Arg Thr His Cys Leu Ala Leu Gln Glu Ala Leu  
 320 325 330  
 Gly Pro Gly Pro Gly Pro Thr Gly Asp Asp Asp Tyr Ser Arg Ala  
 335 340 345  
 Gln Leu Leu Glu Glu Leu Arg Arg Leu Lys Asp Met His Lys Ser  
 350 355 360  
 Lys

<210> 9  
 <211> 306  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2253585CD1

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 Gly Pro His Gly Pro Ser Phe Ala Arg Val Pro Val Ala Pro Ser  
 20 25 30  
 Ser Ser Ser Gly Gly Arg Gly Gly Ala Glu Pro Arg Pro Leu Pro  
 35 40 45  
 Leu Ser Tyr Arg Leu Leu Asp Gly Glu Ala Ala Leu Pro Ala Val  
 50 55 60  
 Val Phe Leu His Gly Leu Phe Gly Ser Lys Thr Asn Phe Asn Ser  
 65 70 75  
 Ile Ala Lys Ile Leu Ala Gln Gln Thr Gly Arg Arg Val Leu Thr  
 80 85 90  
 Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro Asp Met  
 95 100 105  
 Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro Gln  
 110 115 120  
 Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly  
 125 130 135  
 Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu  
 140 145 150  
 Arg Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val  
 155 160 165  
 Ser His Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile  
 170 175 180  
 Ala Asp Glu Leu Pro Arg Ser Arg Ala Arg Lys Leu Ala Asp Glu  
 185 190 195  
 Gln Leu Ser Ser Val Ile Gln Asp Met Ala Val Arg Gln His Leu  
 200 205 210  
 Leu Thr Asn Leu Val Glu Val Asp Gly Arg Phe Val Trp Arg Val  
 215 220 225  
 Asn Leu Asp Ala Leu Thr Gln His Leu Asp Lys Ile Leu Ala Phe  
 230 235 240  
 Pro Gln Arg Gln Glu Ser Tyr Leu Gly Pro Thr Leu Phe Leu Leu  
 245 250 255

[illegible]

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<211> 483
<212> PRT
<213> Homo sapiens
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<221> misc_feature  
<223> Incyte ID No: 2447520CD1
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Arg	Ser	Glu	Phe	Lys	Met	Ala	Ser	Ser	Pro	Ala	Val	Leu	Arg	Ala	
				20					25					30	
Ser	Arg	Leu	Tyr	Gln	Trp	Ser	Leu	Lys	Ser	Ser	Ala	Gln	Phe	Leu	
				35					40					45	
Gly	Ser	Pro	Gln	Leu	Arg	Gln	Val	Gly	Gln	Ile	Ile	Arg	Val	Pro	
				50					55					60	
Ala	Arg	Met	Ala	Ala	Thr	Leu	Ile	Leu	Glu	Pro	Ala	Gly	Arg	Cys	
				65					70					75	
Cys	Trp	Asp	Glu	Pro	Val	Arg	Ile	Ala	Val	Arg	Gly	Leu	Ala	Pro	
				80					85					90	
Glu	Gln	Pro	Val	Thr	Leu	Arg	Ala	Ser	Leu	Arg	Asp	Glu	Lys	Gly	
				95					100					105	
Ala	Leu	Phe	Gln	Ala	His	Ala	Arg	Tyr	Arg	Ala	Asp	Thr	Leu	Gly	
				110					115					120	
Glu	Leu	Asp	Leu	Glu	Arg	Ala	Pro	Ala	Leu	Gly	Gly	Ser	Phe	Ala	
				125					130					135	
Gly	Leu	Glu	Pro	Met	Gly	Leu	Leu	Trp	Ala	Leu	Glu	Pro	Glu	Lys	
				140					145					150	
Pro	Leu	Val	Arg	Leu	Val	Lys	Arg	Asp	Val	Arg	Thr	Pro	Leu	Ala	
				155					160					165	
Val	Glu	Leu	Glu	Val	Leu	Asp	Gly	His	Asp	Pro	Asp	Pro	Gly	Arg	
				170					175					180	
Leu	Leu	Cys	Gln	Thr	Arg	His	Glu	Arg	Tyr	Phe	Leu	Pro	Pro	Gly	
				185					190					195	
Val	Arg	Arg	Glu	Pro	Val	Arg	Val	Gly	Arg	Val	Arg	Gly	Thr	Leu	
				200					205					210	
Phe	Leu	Pro	Pro	Glu	Pro	Gly	Pro	Phe	Pro	Gly	Ile	Val	Asp	Met	
				215					220					225	
Phe	Gly	Thr	Gly	Gly	Gly	Leu	Leu	Glu	Tyr	Arg	Ala	Ser	Leu	Leu	
				230					235					240	
Ala	Gly	Lys	Gly	Phe	Ala	Val	Met	Ala	Leu	Ala	Tyr	Tyr	Asn	Tyr	
				245					250					255	
Glu	Asp	Leu	Pro	Lys	Thr	Met	Glu	Thr	Leu	His	Leu	Glu	Tyr	Phe	

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260	265	270
Glu Glu Ala Met Asn Tyr Leu Leu Ser	His Pro Glu Val Lys Gly	
275	280	285
Pro Gly Val Gly Leu Leu Gly Ile Ser	Lys Gly Gly Glu Leu Cys	
290	295	300
Leu Ser Met Ala Ser Phe Leu Lys Gly	Ile Thr Ala Ala Val Val	
305	310	315
Ile Asn Gly Ser Val Ala Asn Val Gly	Gly Thr Leu Arg Tyr Lys	
320	325	330
Gly Glu Thr Leu Pro Pro Val Gly Val	Asn Arg Asn Arg Ile Lys	
335	340	345
Val Thr Lys Asp Gly Tyr Ala Asp Ile	Val Asp Val Leu Asn Ser	
350	355	360
Pro Leu Glu Gly Pro Asp Gln Lys Ser	Phe Ile Pro Val Glu Arg	
365	370	375
Ala Glu Ser Thr Phe Leu Phe Leu Val	Gly Gln Asp Asp His Asn	
380	385	390
Trp Lys Ser Glu Phe Tyr Ala Asn Glu	Ala Cys Lys Arg Leu Gln	
395	400	405
Ala His Gly Arg Arg Lys Pro Gln Ile	Ile Cys Tyr Pro Glu Thr	
410	415	420
Gly His Tyr Ile Glu Pro Pro Tyr Phe	Pro Leu Cys Arg Ala Ser	
425	430	435
Leu His Ala Leu Val Gly Ser Pro Ile	Ile Trp Gly Gly Glu Pro	
440	445	450
Arg Ala His Ala Met Ala Gln Val Asp	Ala Trp Lys Gln Leu Gln	
455	460	465
Thr Phe Phe His Lys His Leu Gly Gly	His Glu Gly Thr Ile Pro	
470	475	480
Ser Lys Val		

&lt;210&gt; 11

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2481345CD1

&lt;400&gt; 11

Met Leu Leu Leu Trp Val Ser Val Val	Ala Ala Leu Ala Leu Ala
1	5 10 15
Val Leu Ala Pro Gly Ala Gly Glu Gln	Arg Arg Arg Ala Ala Lys
20	25 30
Ala Pro Asn Val Val Leu Val Val Ser	Asp Ser Phe Asp Gly Arg
35	40 45
Leu Thr Phe His Pro Gly Ser Gln Val	Val Lys Leu Pro Phe Ile
50	55 60
Asn Phe Met Lys Thr Arg Gly Thr Ser	Phe Leu Asn Ala Tyr Thr
65	70 75
Asn Ser Pro Ile Cys Cys Pro Ser Arg	Ala Ala Met Trp Ser Gly
80	85 90
Leu Phe Thr His Leu Thr Glu Ser Trp	Asn Asn Phe Lys Gly Leu

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	95		100		105
Asp	Pro	Asn	Tyr	Thr	Thr
		Trp	Met	Asp	Val
			Met	Glu	Arg
				His	Gly
	110		115		120
Tyr	Arg	Thr	Gln	Lys	Phe
		Gly	Lys	Leu	Asp
			Tyr	Thr	Ser
	125		130		135
His	Ser	Ile	Ser	Asn	Arg
		Val	Glu	Ala	
	140				

&lt;210&gt; 12

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2484020CD1

&lt;400&gt; 12

Met	Met	Lys	Phe	Lys	Pro	Asn	Gln	Thr	Arg	Thr	Tyr	Asp	Arg	Glu
1				5					10					15
Gly	Phe	Lys	Lys	Arg	Ala	Ala	Cys	Leu	Cys	Phe	Arg	Ser	Glu	Gln
				20					25					30
Glu	Asp	Glu	Val	Leu	Leu	Val	Ser	Ser	Ser	Arg	Tyr	Pro	Asp	Gln
				35					40					45
Trp	Ile	Val	Pro	Gly	Gly	Gly	Met	Glu	Pro	Glu	Glu	Glu	Pro	Gly
				50					55					60
Gly	Ala	Ala	Val	Arg	Glu	Val	Tyr	Glu	Glu	Ala	Gly	Val	Lys	Gly
				65					70					75
Lys	Leu	Gly	Arg	Leu	Leu	Gly	Ile	Phe	Glu	Asn	Gln	Asp	Arg	Lys
				80					85					90
His	Arg	Thr	Tyr	Val	Tyr	Val	Leu	Thr	Val	Thr	Glu	Ile	Leu	Glu
				95					100					105
Asp	Trp	Glu	Asp	Ser	Val	Asn	Ile	Gly	Arg	Lys	Arg	Glu	Trp	Phe
				110					115					120
Lys	Val	Glu	Asp	Ala	Ile	Lys	Val	Leu	Gln	Cys	His	Lys	Pro	Val
				125					130					135
His	Ala	Glu	Tyr	Leu	Glu	Lys	Leu	Lys	Leu	Gly	Cys	Ser	Pro	Ala
				140					145					150
Asn	Gly	Asn	Ser	Thr	Val	Pro	Ser	Leu	Pro	Asp	Asn	Asn	Ala	Leu
				155					160					165
Phe	Val	Thr	Ala	Ala	Gln	Thr	Ser	Gly	Leu	Pro	Ser	Ser	Val	Arg
				170					175					180

&lt;210&gt; 13

&lt;211&gt; 375

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2862528CD1

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PCT/US99/27009

&lt;400&gt; 13

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Met Ala Arg Pro Gly Leu Ile His Ser Ala Pro Gly Leu Pro Asp
 1          5          10          15
Thr Cys Ala Leu Leu Gln Pro Pro Ala Ala Ser Ala Ala Ala Ala
          20          25          30
Pro Ser Met Ser Gly Pro Asp Val Glu Thr Pro Ser Ala Ile Gln
          35          40          45
Ile Cys Arg Ile Met Arg Pro Asp Asp Ala Asn Val Ala Gly Asn
          50          55          60
Val His Gly Gly Thr Ile Leu Lys Met Ile Glu Glu Ala Gly Ala
          65          70          75
Ile Ile Ser Thr Arg His Cys Asn Ser Gln Asn Gly Glu Arg Cys
          80          85          90
Val Ala Ala Leu Ala Arg Val Glu Arg Thr Asp Phe Leu Ser Pro
          95          100          105
Met Cys Ile Gly Glu Val Ala His Val Ser Ala Glu Ile Thr Tyr
          110          115          120
Thr Ser Lys His Ser Val Glu Val Gln Val Asn Val Met Ser Glu
          125          130          135
Asn Ile Leu Thr Gly Ala Lys Lys Leu Thr Asn Lys Ala Thr Leu
          140          145          150
Trp Tyr Val Pro Leu Ser Leu Lys Asn Val Asp Lys Val Leu Glu
          155          160          165
Val Pro Pro Val Val Tyr Ser Arg Gln Glu Gln Glu Glu Glu Gly
          170          175          180
Arg Lys Arg Tyr Glu Ala Gln Lys Leu Glu Arg Met Glu Thr Lys
          185          190          195
Trp Arg Asn Gly Asp Ile Val Gln Pro Val Leu Asn Pro Gly Val
          200          205          210
Thr Met Lys Leu Met Asp Glu Val Ala Gly Ile Val Ala Ala Arg
          215          220          225
His Cys Lys Thr Asn Ile Val Thr Ala Ser Val Asp Ala Ile Asn
          230          235          240
Phe His Asp Lys Ile Arg Lys Gly Cys Val Ile Thr Ile Ser Gly
          245          250          255
Arg Met Thr Phe Thr Ser Asn Lys Ser Met Glu Ile Glu Val Leu
          260          265          270
Val Asp Ala Asp Pro Val Val Asp Ser Ser Gln Lys Arg Tyr Arg
          275          280          285
Ala Ala Ser Ala Phe Phe Thr Tyr Val Ser Leu Ser Gln Glu Gly
          290          295          300
Arg Ser Leu Pro Val Pro Gln Leu Val Pro Glu Thr Glu Asp Glu
          305          310          315
Lys Lys Arg Phe Glu Glu Gly Lys Gly Arg Tyr Leu Gln Met Lys
          320          325          330
Ala Asn Asp Arg Ala Thr Arg Ser Leu Ser Pro Arg Leu Pro Pro
          335          340          345
Pro Ala Thr Gly Ala Ser Ser Ser His Gly Asn Gly Pro Ser Val
          350          355          360
Gln Ser Leu Arg Ser Ser Pro Leu Gly Gln Lys Pro Asn Ser His
          365          370          375

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&lt;210&gt; 14

&lt;211&gt; 637

WO 00/28045

PCT/US99/27009

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3200650CD1

&lt;400&gt; 14

Met	Thr	Thr	Trp	Ser	Leu	Arg	Arg	Arg	Pro	Ala	Arg	Thr	Leu	Gly	
1				5					10					15	
Leu	Leu	Leu	Leu	Val	Val	Leu	Gly	Phe	Leu	Val	Leu	Arg	Arg	Leu	
				20					25					30	
Asp	Trp	Ser	Thr	Leu	Val	Pro	Leu	Arg	Leu	Arg	His	Arg	Gln	Leu	
				35					40					45	
Gly	Leu	Gln	Ala	Lys	Gly	Trp	Asn	Phe	Met	Leu	Glu	Asp	Ser	Thr	
				50					55					60	
Phe	Trp	Ile	Phe	Gly	Gly	Ser	Ile	His	Tyr	Phe	Arg	Val	Pro	Arg	
				65					70					75	
Glu	Tyr	Trp	Arg	Asp	Arg	Leu	Leu	Lys	Met	Lys	Ala	Cys	Gly	Leu	
				80					85					90	
Asn	Thr	Leu	Thr	Thr	Tyr	Val	Pro	Trp	Asn	Leu	His	Glu	Pro	Glu	
				95					100					105	
Arg	Gly	Lys	Phe	Asp	Phe	Leu	Trp	Glu	Thr	Trp	Thr	Leu	Lys	Ala	
				110					115					120	
Phe	Val	Leu	Met	Ala	Ala	Glu	Ile	Gly	Leu	Trp	Val	Ile	Leu	Arg	
				125					130					135	
Pro	Gly	Pro	Tyr	Ile	Cys	Ser	Glu	Met	Asp	Leu	Gly	Gly	Leu	Pro	
				140					145					150	
Ser	Trp	Leu	Leu	Gln	Asp	Pro	Gly	Met	Arg	Leu	Arg	Thr	Thr	Tyr	
				155					160					165	
Lys	Gly	Phe	Thr	Glu	Ala	Val	Asp	Leu	Tyr	Phe	Asp	His	Leu	Met	
				170					175					180	
Ser	Arg	Val	Val	Pro	Leu	Gln	Tyr	Lys	Arg	Gly	Gly	Pro	Ile	Ile	
				185					190					195	
Ala	Val	Gln	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Tyr	Asn	Lys	Asp	Pro	
				200					205					210	
Ala	Tyr	Met	Pro	Tyr	Val	Lys	Lys	Ala	Leu	Glu	Asp	Arg	Gly	Ile	
				215					220					225	
Val	Glu	Leu	Leu	Leu	Thr	Ser	Asp	Asn	Lys	Asp	Gly	Leu	Ser	Lys	
				230					235					240	
Gly	Ile	Val	Gln	Gly	Val	Leu	Ala	Thr	Ile	Asn	Leu	Gln	Ser	Thr	
				245					250					255	
His	Glu	Leu	Gln	Leu	Leu	Thr	Thr	Phe	Leu	Phe	Asn	Val	Gln	Gly	
				260					265					270	
Thr	Gln	Pro	Lys	Met	Val	Met	Glu	Tyr	Trp	Thr	Gly	Trp	Phe	Asp	
				275					280					285	
Ser	Trp	Gly	Gly	Pro	His	Asn	Ile	Leu	Asp	Ser	Ser	Glu	Val	Leu	
				290					295					300	
Lys	Thr	Val	Ser	Ala	Ile	Val	Asp	Ala	Gly	Ser	Ser	Ile	Asn	Leu	
				305					310					315	
Tyr	Met	Phe	His	Gly	Gly	Thr	Asn	Phe	Gly	Phe	Met	Asn	Gly	Ala	
				320					325					330	
Met	His	Phe	His	Asp	Tyr	Lys	Ser	Asp	Val	Thr	Ser	Tyr	Asp	Tyr	
				335					340					345	
Asp	Ala	Val	Leu	Thr	Glu	Ala	Gly	Asp	Tyr	Thr	Ala	Lys	Tyr	Met	

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	350		355		360
Lys Leu Arg Asp	Phe Phe Gly Ser Ile	Ser Gly Ile Pro Leu Pro			
	365		370		375
Pro Pro Pro Asp	Leu Leu Pro Lys Met	Pro Tyr Glu Pro Leu Thr			
	380		385		390
Pro Val Leu Tyr	Leu Ser Leu Trp Asp	Ala Leu Lys Tyr Leu Gly			
	395		400		405
Glu Pro Ile Lys	Ser Glu Lys Pro Ile	Asn Met Glu Asn Leu Pro			
	410		415		420
Val Asn Gly Gly	Asn Gly Gln Ser Phe	Gly Tyr Ile Leu Tyr Glu			
	425		430		435
Thr Ser Ile Thr	Ser Ser Gly Ile Leu	Ser Gly His Val His Asp			
	440		445		450
Arg Gly Gln Val	Phe Val Asn Thr Val	Ser Ile Gly Phe Leu Asp			
	455		460		465
Tyr Lys Thr Thr	Lys Ile Ala Val Pro	Leu Ile Gln Gly Tyr Thr			
	470		475		480
Val Leu Arg Ile	Leu Val Glu Asn Arg	Gly Arg Val Asn Tyr Gly			
	485		490		495
Glu Asn Ile Asp	Asp Gln Arg Lys Gly	Leu Ile Gly Asn Leu Tyr			
	500		505		510
Leu Asn Asp Ser	Pro Leu Lys Asn Phe	Arg Ile Tyr Ser Leu Asp			
	515		520		525
Met Lys Lys Ser	Phe Phe Gln Arg Phe	Gly Leu Asp Lys Trp Ser			
	530		535		540
Ser Leu Pro Glu	Thr Pro Thr Leu Pro	Ala Phe Phe Leu Gly Ser			
	545		550		555
Leu Ser Ile Ser	Ser Thr Pro Cys Asp	Thr Phe Leu Lys Leu Glu			
	560		565		570
Gly Trp Glu Lys	Gly Val Val Phe Ile	Asn Gly Gln Asn Leu Gly			
	575		580		585
Arg Tyr Trp Asn	Ile Gly Pro Gln Lys	Thr Leu Tyr Leu Pro Gly			
	590		595		600
Pro Trp Leu Ser	Ser Gly Ile Asn Gln	Val Ile Val Phe Glu Glu			
	605		610		615
Thr Met Ala Gly	Pro Ala Leu Gln Phe	Thr Glu Thr Pro His Leu			
	620		625		630
Gly Arg Asn Gln	Tyr Ile Lys				
	635				

&lt;210&gt; 15

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4107621CD1

&lt;400&gt; 15

Met Ser Glu Asn Ala Ala Pro Gly Leu Ile Ser Glu Leu Lys Leu		
1	5	10
Ala Val Pro Trp Gly His Ile Ala Ala Lys Ala Trp Gly Ser Leu		
20	25	30

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Gln Gly Pro Pro Val Leu Cys Leu His Gly Trp Leu Asp Asn Ala	35	40	45
Ser Ser Phe Asp Arg Leu Ile Pro Leu Leu Pro Gln Asp Phe Tyr	50	55	60
Tyr Val Ala Met Asp Phe Gly Gly His Gly Leu Ser Ser His Tyr	65	70	75
Ser Pro Gly Val Pro Tyr Tyr Leu Gln Thr Phe Val Ser Glu Ile	80	85	90
Arg Arg Val Val Ala Ala Leu Lys Trp Asn Arg Phe Ser Ile Leu	95	100	105
Gly His Ser Phe Gly Gly Val Val Gly Gly Met Phe Phe Cys Thr	110	115	120
Phe Pro Glu Met Val Asp Lys Leu Ile Leu Leu Asp Thr Pro Leu	125	130	135
Phe Leu Leu Glu Ser Asp Glu Met Glu Asn Leu Leu Thr Tyr Lys	140	145	150
Arg Arg Ala Ile Glu His Val Leu Gln Val Glu Ala Ser Gln Glu	155	160	165
Pro Ser His Val Phe Ser Leu Lys Gln Leu Leu Gln Arg Leu Leu	170	175	180
Lys Ser Asn Ser His Leu Ser Glu Glu Cys Gly Glu Leu Leu Leu	185	190	195
Gln Arg Gly Thr Thr Lys Val Ala Thr Gly Leu Val Leu Asn Arg	200	205	210
Asp Gln Arg Leu Ala Trp Ala Glu Asn Ser Ile Asp Phe Ile Ser	215	220	225
Arg Glu Leu Cys Ala His Ser Ile Arg Lys Leu Gln Ala His Val	230	235	240
Leu Leu Ile Lys Ala Val His Gly Tyr Phe Asp Ser Arg Gln Asn	245	250	255
Tyr Ser Glu Lys Glu Ser Leu Ser Phe Met Ile Asp Thr Met Lys	260	265	270
Ser Thr Leu Lys Glu Gln Phe Gln Phe Val Glu Val Pro Gly Asn	275	280	285
His Cys Val His Met Ser Glu Pro Gln His Val Ala Ser Ile Ile	290	295	300
Ser Ser Phe Leu Gln Cys Thr His Met Leu Pro Ala Gln Leu	305	310	

&lt;210&gt; 16

&lt;211&gt; 448

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4661133CD1

&lt;400&gt; 16

Met Arg Arg Ala Ala Leu Arg Leu Cys Ala Leu Gly Lys Gly Gln	1	5	10	15
Leu Thr Pro Gly Arg Gly Leu Thr Gln Gly Pro Gln Asn Pro Lys	20	25	30	
Lys Gln Gly Ile Phe His Ile His Glu Ala Cys Ser Ser Ile His				



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35	40	45
Val Asn His Val Arg Asp Lys Leu Arg Glu Ile Val Gly Ala Ser		
50	55	60
Thr Asn Trp Arg Asp His Val Lys Ala Met Glu Glu Arg Lys Leu		
65	70	75
Leu His Ser Phe Leu Ala Lys Ser Gln Asp Gly Leu Pro Pro Arg		
80	85	90
Arg Met Lys Asp Ser Tyr Ile Glu Val Leu Leu Pro Leu Gly Ser		
95	100	105
Glu Pro Glu Leu Arg Glu Lys Tyr Leu Thr Val Gln Asn Thr Val		
110	115	120
Arg Phe Gly Arg Ile Leu Glu Asp Leu Asp Ser Leu Gly Val Leu		
125	130	135
Ile Cys Tyr Met His Asn Lys Ile His Ser Ala Lys Met Ser Pro		
140	145	150
Leu Ser Ile Val Thr Ala Leu Val Asp Lys Ile Asp Met Cys Lys		
155	160	165
Lys Ser Leu Ser Pro Glu Gln Asp Ile Lys Phe Ser Gly His Val		
170	175	180
Ser Trp Val Gly Lys Thr Ser Met Glu Val Lys Met Gln Met Phe		
185	190	195
Gln Leu His Gly Asp Glu Phe Cys Pro Val Leu Asp Ala Thr Phe		
200	205	210
Val Met Val Ala Arg Asp Ser Glu Asn Lys Gly Pro Ala Phe Val		
215	220	225
Asn Pro Leu Ile Pro Glu Ser Pro Glu Glu Glu Glu Leu Phe Arg		
230	235	240
Gln Gly Glu Leu Asn Lys Gly Arg Arg Ile Ala Phe Ser Ser Thr		
245	250	255
Ser Leu Leu Lys Met Ala Pro Ser Ala Glu Glu Arg Thr Thr Ile		
260	265	270
His Glu Met Phe Leu Ser Thr Leu Asp Pro Lys Thr Ile Ser Phe		
275	280	285
Arg Ser Arg Val Leu Pro Ser Asn Ala Val Trp Met Glu Asn Ser		
290	295	300
Lys Leu Lys Ser Leu Glu Ile Cys His Pro Gln Glu Arg Asn Ile		
305	310	315
Phe Asn Arg Ile Phe Gly Gly Phe Leu Met Arg Lys Ala Tyr Glu		
320	325	330
Leu Ala Trp Ala Thr Ala Cys Ser Phe Gly Gly Ser Arg Pro Phe		
335	340	345
Val Val Ala Val Asp Asp Ile Met Phe Gln Lys Pro Val Glu Val		
350	355	360
Gly Ser Leu Leu Phe Leu Ser Ser Gln Val Cys Phe Thr Gln Asn		
365	370	375
Asn Tyr Ile Gln Val Arg Val His Ser Glu Val Ala Ser Leu Gln		
380	385	390
Glu Lys Gln His Thr Thr Thr Asn Val Phe His Phe Thr Phe Met		
395	400	405
Ser Glu Lys Glu Val Pro Leu Val Phe Pro Lys Thr Tyr Gly Glu		
410	415	420
Ser Met Leu Tyr Leu Asp Gly Gln Arg His Phe Asn Ser Met Ser		
425	430	435
Gly Pro Ala Thr Leu Arg Lys Asp Tyr Leu Val Glu Pro		
440	445	

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<210> 17  
 <211> 723  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2293764CB1

<400> 17  
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 tgcgtgcaca aagagtagga gagcccagag ttccagaatg cccctaattc cgaacaccac 120  
 aggggtgagtc tggagcaagt cacctgggag ggcttacagg tgccataatg aaggcctggg 180  
 gcaactgtggt agtgaccttg gccacgctga tggttgtcac tgtggatgcc aagatctatg 240  
 aactctgcga gctggcgcca agactggaga gagcagggct gaacggctac aagggtctacg 300  
 gcgttgaggaga ctggctgtgc atggctcatt atgagagtgg ctttgacacc gccttcgtgg 360  
 accacaatcc tgatggcagc agtgaatatg gcattttcca actgaattct gcctggtggg 420  
 gtgacaatgg cattacaccc accaagaacc tctgccacat ggattgtcat gacctgctca 480  
 atcgccatat tctggatgac atcaggtgtg ccaagcagat tgtgtcctca cagaatgggc 540  
 tttctgcctg gacttcttgg aggtacact gttctggcca tgatttatct gaatggctca 600  
 aggggtgtga tatgcatgtg aaaattgatc caaaaattca tccatgactc agattcgaag 660  
 agacagattt tatcttcctt tcatttcttc atattgtcac ttaataaag gatggtactc 720  
 gtc 723

<210> 18  
 <211> 1228  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 949738CB1

<400> 18  
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 ctccaccaac tctgtcctcg ggggggtggg gccccagccg agatcacagc gcgacaggag 180  
 tgggggtggc cgctggagac aggtgaagaa acaagaaaac taagaaatcc gagcggttgg 240  
 agggggagtc tgtgtggatg ggatggggac gccgggggag gggctgggcc gctgctccca 300  
 tgccctgatc cggggagtcc cagagagcct ggctcgggg gaaggtgcgg gggctggcct 360  
 tcccgtctcg gatctggcca aagctcaaag ggagcacggg gtgctgggag gtaaaactgag 420  
 gcaacgactg gggctacagc tgctagaact gccacctgag gactcattgc cgctgggacc 480  
 gctgcttggc gacacggccg tgatccaagg ggacacggcc ctaatcacgc ggccctggag 540  
 ccccgctcgt aggccagagg tcgatggagt ccgcaaagcc ctgcaagacc tggggctccg 600  
 aattgtggaa ataggagacg agaacgcgac gctggatggc actgacgttc tcttcaccgg 660  
 ccgggagttt ttcgtaggcc tctccaaatg gaccaatcac cgaggagctg agatcgtggc 720  
 ggacacgttc cgggacttcg ccgtctccac tgtgccagtc tcgggtccct cccacctgcg 780  
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 agatgacgca gctgctgact gtctcttctc tcgtcctggg ttgcctggtg tgccccctt 960  
 cctcctgcac cgtggagggtg gggatctgcc caacagccag gaggcactgc agaagctctc 1020  
 tgatgtcacc ctggtacctg tgtcctgctc agaactggag aaggccggcg ccgggctcag 1080  
 ctccctctgc ttggtgctca gcacacgccc ccacagctga gggcctggcc ttggggtact 1140

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PCT/US99/27009

gctggccagg ggtaggatag tataggaagt agaaggggaa ggaggggttag atagagaatg 1200  
 ctgaataggc agtagttggg agagaggg 1228

<210> 19  
 <211> 2155  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1297034CB1

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 ccgtgccggt gcgggcgcgc gcatgtggct gtgggaggac cagggcggcc tcctgggccc 120  
 tttctccttc ctgctgctag tgctgctgct ggtgacgcgg agcccggtca atgcctgcct 180  
 cctcaccggc agcctcttcg ttctactgcg cgtcttcagc tttgagccgg tgccctcttg 240  
 cagggccctg caggtgctca agccccggga ccgcatttct gccatcgccc accgtggcgg 300  
 cagccacgac gcgcccagaga acacgctggc ggccattcgg caggcagcta agaattggagc 360  
 aacaggcgtg gagttggaca ttgagtttac ttctgacggg attcctgtct taatgcacga 420  
 taacacagta gataggacga ctgatgggac tgggcgattg tgtgatttga catttgaaca 480  
 aattaggaag ctgaatcctg cagcaaacca cagactcagg aatgatttcc ctgatgaaaa 540  
 gatccctacc ctaagggaag ctggtgcaga gtgcctaaac cataacctca caatcttctt 600  
 tgatgtcaaa ggccatgcac acaaggctac tgaggctcta aagaaaatgt atatggaatt 660  
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&lt;210&gt; 28



WO 00/28045

PCT/US99/27009

&lt;211&gt; 1375

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2484020CB1

&lt;400&gt; 28

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&lt;210&gt; 29

&lt;211&gt; 1390

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2862528CB1

&lt;400&gt; 29

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aaaaaaaaa 1390

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&lt;210&gt; 30

&lt;211&gt; 3038

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3200650CB1

&lt;400&gt; 30

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&lt;210&gt; 31

&lt;211&gt; 1340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4107621CB1

&lt;400&gt; 31

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WO 00/28045

PCT/US99/27009

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1340

&lt;210&gt; 32

&lt;211&gt; 1717

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4661133CB1

&lt;400&gt; 32

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1717

&lt;210&gt; 33

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Colobus guereza

&lt;300&gt;

&lt;308&gt; GenBank ID No: g1790927

&lt;400&gt; 33

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Met Lys Ala Leu Ile Ile Leu Gly Leu Val Leu Leu Ser Val Thr
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Val Gln Gly Lys Ile Phe Glu Arg Cys Glu Leu Ala Arg Thr Leu

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WO 00/28045

PCT/US99/27009

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	35		40		45									
Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Asp	Ala
	50		55		60									
Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
	65		70		75									
Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
	80		85		90									
Ala	Val	Asn	Ala	Cys	His	Ile	Ser	Cys	Asn	Ala	Leu	Leu	Gln	Asn
	95		100		105									
Asn	Ile	Ala	Asp	Ala	Val	Ala	Cys	Ala	Lys	Arg	Val	Val	Ser	Asp
	110		115		120									
Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Lys	Lys	His	Cys	Gln
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&lt;210&gt; 34

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Colobus angolensis

&lt;300&gt;

&lt;308&gt; GenBank ID No: g1790967

&lt;400&gt; 34

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	20		25		30									
Lys	Lys	Leu	Gly	Leu	Asp	Gly	Tyr	Lys	Gly	Val	Ser	Leu	Ala	Asn
	35		40		45									
Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Asp	Ala
	50		55		60									
Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
	65		70		75									
Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
	80		85		90									
Ala	Val	Asn	Ala	Cys	His	Ile	Ser	Cys	Asn	Ala	Leu	Leu	Gln	Asn
	95		100		105									
Asn	Ile	Ala	Asp	Ala	Val	Ala	Cys	Ala	Lys	Arg	Val	Val	Ser	Asp
	110		115		120									
Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Lys	Lys	His	Cys	Gln
	125		130		135									
Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Glu	Gly	Cys	Gly	Val		
	140		145											

&lt;210&gt; 35

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Nasalis larvatus

WO 00/28045

PCT/US99/27009

&lt;300&gt; misc\_feature

&lt;308&gt; GenBank ID No: g1790984

&lt;400&gt; 35

Met	Lys	Ala	Leu	Ile	Ile	Leu	Gly	Leu	Val	Leu	Leu	Ser	Val	Thr	1	5	10	15
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Lys	Lys	Leu	Gly	Leu	Asp	Gly	Tyr	Lys	Gly	Val	Ser	Leu	Ala	Asn	35	40	45	
Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Glu	Ala	50	55	60	
Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe	65	70	75	
Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly	80	85	90	
Ala	Val	Asp	Ala	Cys	His	Ile	Ser	Cys	Ser	Ala	Leu	Leu	Gln	Asn	95	100	105	
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Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Arg	Asn	His	Cys	Gln	125	130	135	
Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Lys	Gly	Cys	Gly	Val	140	145				